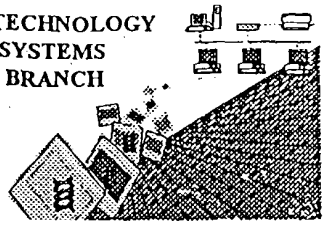
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/657,814
Source: IFW0
Date Processed by STIC: 3/5/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to (EFFECTIVE 12/01/03):**
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Insert these mandatory numeric identifiers and responses at beginning of Sequence Listing

<1107
<1207
<1407
<1417
<1607

IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/657,814

DATE: 03/05/2004
TIME: 09:55:51

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\03052004\J657814.raw

1) Do not use italics or bold print. Per 1.823 of Sequence Rules, use a fixed-width font.

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

3 <210> SEQ ID NO: 1
4 <211> LENGTH: 1531
5 <212> TYPE: DNA
6 <213> ORGANISM: Lactobacillus reuteri Probio-16

8 <400> SEQUENCE: 1
9 gatgaacgcc ggcggtgtgc ctaatacatg caagtcgtac gcactggccc aactgattaa 60
10 tggtgcttgc acctgattga cgatggatca ccagtgagtg gcggacgggt gagtaacacg 120
11 taggtaacct gccccggagc gggggataac atttggaaac agatgctaat accgcataac 180
12 aacaaaagcc acatggcttt tgtttgaaag atggctttgg ctatcactct gggatggacc 240
13 tgcggtgcat tagctagttg gtaaggtaac ggcttaccaa ggcgatgatg catagccgag 300
14 ttgagagact gatcggccac aatggaactg agacacggtc catactccta cgggaggcag 360
15 cagtagggaa tcttccacaa tgggcgcaag cctgatggag caacaccgcg tgagtgaaga 420
16 agggtttcgg ctcgtaaagc tctgttgttg gagaagaacg tgcgtgagag taactgttca 480
17 cgcagtgacg gtatccaacc agaaagtcac ggctaactac gtgccagcag ccgcggtaat 540
18 acgtaggtgg caagcgttat ccggatttat tgggcgtaaa gcgagcgcag gcggttgctt 600
19 aggtctgatg tgaaagcctt cggcttaacc gaagaagtgc atcggaaacc gggcaacttg 660
20 agtgcagaag aggacagtgg aactccatgt gtagcggtgg aatgcgtaga tatatggaag 720
21 aacaccagtg gcgaaggcgg ctgtctggtc tgcaactgac gctgaggctc gaaagcatgg 780
22 gtagcgaaca ggattagata ccctggtagt ccatgccgta aacgatgagt gctaggtgtt 840
23 ggagggtttc cgcccttcag tgccggagct aacgcattaa gcactccgcc tggggagtac 900
24 gaccgcaagg ttgaaactca aaggaattga cgggggcccg cacaagcggt ggagcatgtg 960
25 gtttaattcg aagctacgcg aagaacctta ccaggtcttg acatcttgcg ctaaccttag 1020
26 agataaggcg ttcccttcgg ggacgcaatg acaggtggtg catggtcgtc gtcagctcgt 1080
27 gtcgtgagat gttgggttaa gtcccgcaac gagcgcaacc cttgttacta gttgccagca 1140
28 ttaagttggg cactctagtg agactgccgg tgacaaaccg gaggaaggtg gggacgacgt 1200
29 cagatcatca tgccccttat gacctgggct acacacgtgc tacaatggac ggtacaacga 1260
30 gtcgcaagct cgcgagagta agctaatctc ttaaagccgt tctcagttcg gactgtaggc 1320
31 tgcaactcgc ctacacgaag tcggaatcgc tagtaatcgc ggatcagcat gccgcggtga 1380
32 atacgttccc gggccttgta cacaccgccc gtcacaccat gggagtttgt aacgcccaaa 1440
33 gtcggtggcc taaccattat ggagggagcc gcctaaggcg ggacagatga ctggggtgaa 1500
E--> 34 gtcgtaacaa ggtagccgta ggagaacctg c 1531

Insert cumulative nucleotide total at right margin of each line

See sample Sequence Listing (attached) for valid format

VERIFICATION SUMMARY DATE: 03/05/2004
PATENT APPLICATION: **US/10/657,814** TIME: 09:55:52

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\03052004\J657814.raw**

L:0 M:282 E: Numeric Field Identifier Missing, <110> is required.
L:0 M:282 E: Numeric Field Identifier Missing, <120> is required.
L:0 M:282 E: Numeric Field Identifier Missing, <160> is required.
L:34 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1531 SEQ:1
L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (1)

<110> Smith, John; Smithgene Inc.

<120> Example of a Sequence Listing

<130> 01-00001

<140> PCT/EP98/00001
<141> 1998-12-31

<150> US 08/999,999
<151> 1997-10-15

<160> 1

<170> PatentIn version 2.0

<210> 1
<211> 389
<212> DNA
<213> Paramecium sp.

<220>
<221> CDS
<222> (279)...(389)

<300>
<301> Doe, Richard
<302> Isolation and Characterization of a Gene Encoding a Protease from Paramecium sp.
<303> Journal of Genes
<304> 1
<305> 4
<306> 1-7
<307> 1988-06-31
<308> 123456
<309> 1988-06-31

<400> 1

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agggagagtg tcttgaccct cctctgcctt tgcagcttca caggcaggca ggcaggcagc 120

tgatgtggca attgctggca gtgccacagg ctttttcagcc aggcttaggg tgggttccgc 180

cgcggcgcgg cggccccctct cgcgctcctc tcgcgcctct ctctcgctct cctctcgctc 240

Consult this.

Appendix 3, page 2

```
ggacctgatt  aggtgagcag  gaggagggg  cagttagc  atg gtt tca atg ttc agc  296
                                             Met Val Ser Met Phe Ser
                                              1               5

ttg tct ttc aaa tgg cct gga ttt tgt ttg bct gtt tgt ttg ttc caa  3<<
Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu Phe Val Cys Leu Phe Gln
            10                  15                  20

tgt ccc aaa gtc ctc ccc tgt cac tca tca ctg cag ccg aat ctt      389
Cys Pro Lys Val Leu Pro Cys His Ser Ser Leu Gln Pro Asn Leu
        25                  30                  35
```

<210> 2
<211> 37
<212> PRT
<213> Paramecium sp.

<400> 2
Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu
 1   5   10   15

Phe Val Cys Leu Phe Gln Cys Pro Lys Val Leu Pro Cys His Ser Ser
            20   25   30

Leu Gln Pro Asn Leu
        35

<210> 3
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3
Met Val Asn Leu Glu Pro Met His Thr Glu Ile
 1   5   10

<210> 4
<400> 4
000

[Annex VIII follows]

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M, when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO:#:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M

<212>	Type	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.	M
<213>	Organism	Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.	M
<220>	Feature	Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

		in feature	base was used in a sequence
<223>	Other Information	Other relevant information; four lines maximum	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA
<300>	Publication Information	Leave blank after <300>	O
<301>	Authors	Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials	O
<302>	Title		O
<303>	Journal		O
<304>	Volume		O
<305>	Issue		O
<306>	Pages		O
<307>	Date	Journal date on which data published; specify as yyyy-mm-dd, mm-yyyy or Season-yyyy	O
<308>	Database Accession Number	Accession number assigned by database including database name	O
<309>	Database Entry Date	Date of entry in database; specify as yyyy-mm-dd or mm-yyyy	O
<310>	Patent Document Number	Document number; for patent-type citations only. Specify as, for example, US 07/999,999	O

<311>	Patent Filing Date	Document filing date, for patent-type citations only; specify as yyyy-mm-dd	O
<312>	Publication Date	Document publication date, for patent-type citations only; specify as yyyy-mm-dd	O
<313>	Relevant Residues	"FROM (position) TO (position)	O
<400>	Sequence	SEQ ID NO should follow the numeric identifier and should appear on the line preceding the actual sequence	M

5. Section 1.824 is revised to read as follows:

1.824 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.821(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer-readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;